

YAMPOL'SKAYA, S.A. (L'vov)

Cementomas of heterotopic (extramaxillary) localization. Arkh.
pat. no. 10:54-56 '64. (MIRA 18:10)

1. Kafedra patologicheskoy anatomii (zav.- prof. Ye.I. Pal'chevskiy)
L'vovskogo meditsinskogo instituta.

Cand. Sci. Tech.

YANPOL'SKAYA, T. G.

Dissertation: "Basic Principles of Selecting the Road Pavements for
Inhabited Localities of the USSR."

18 Oct. 49

Academy of Communal Economy

imeni K. D. Pamfilov

SO Vecheryaya Moskva
Sum 71

YAMPOL'SKAYA, T.G.

GUREVICH, L.V.; YAMPOL'SKAYA, T.G.; MURZAYEVA, L.B.; KHRUNOV, N.P., redaktor;
OTOICHEVA, M.A., redaktor; PETROVSKAYA, Ye., tekhnicheskii redaktor

[Road traffic signs] Dorozhnye signal'nye znaki. Moskva, Izd-vo
Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 46 p.
(Traffic regulations) (MLRA 9:2)

YAMPOL'SKAYA, T.G.

K-9

USSR/Optics - Physiological Optics

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13180

Author : Gurtovoy, G.K., Gurevich, L.V., Murzayeva, L.B.,
Seletskaya, L.I., Yampol'skaya, T.G.

Inst : -

Title : Investigation of the Laws of Color and Three Dimensional
Visions and Their Use for Increasing the Effectiveness of
Road Signals.

Orig Pub : Tr. In-ta biol. fiz. AN SSSR, 1955, 1, 136-157

Abstract : Starting with the premise that the problems of visibility
of road signals are insufficiently well developed, the
authors have undertaken an extensive investigation of the
influence of such factors, as the shape of the signs, the
combination of colors of the image on the sign and of the
background, the dimension of the sign, and its illumina-
tion. As a total the following recommendations were made:
(1) With respect to the shape -- rectangle (1:4 to 1:10),

Card 1/2

YAMPOL'SKAYA, T. G
TUTAYEV, A., kand.tekhn.nauk; YAMPOL'SKAYA, T., kand.tekhn.nauk.

Make wider use of local materials in road construction. Zhil.-kon.
khoz. 8 no.2:14-15 '58. (MIRA 11:2)
(Road materials)

GOL'TSMAN, Lyubov' Naumovna; kand.ekonom.nauk; ZAVADSKAYA, Irina
Yevseyevna, kand.ekonom.nauk; ORLOVA, Raisa Il'ichna,
nauchnyy sotrudnik; YAMPOL'SKAYA, Tat'yana Georgiyevna,
kand.tekhn.nauk; Kholmogorova, T.A., ~~Izd-vo~~; SHLIKHT,
A.A., tekhn.red.

[Maintaining city streets] Voprosy ekspluatatsii gorodskikh
dorog. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 88 p.
(MIRA 12:11)

(Streets--Maintenance and repair)

S/141/60/003/005/026/026
E140/E335

AUTHORS: Ivanova, I.M., Ketkov, Yu.L. and Yampol'skaya, T.S.

TITLE: On the Existence of Barker Codes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiofizika, 1960, Vol. 3, No. 5, pp. 911 - 913

TEXT: Given the matrix on p. 911, where each element has the value ± 1 , a Barker code is given by the first line a_1, a_2, \dots, a_n of the matrix, if conditions 1) and 2) :

$$1) S(A_i) = 0 \quad (i = 1, 2, \dots) ;$$

$$2) |S(N_i)| = 1 \quad (i = 0, 1, 2, \dots)$$

are satisfied, where the notation $S(N_i)$ indicates the sum of all elements in the diagonal N_i . Several properties of the matrix are discussed, after which it is shown that for Card 1/4

S/141/60/003/005/026/026
E140/E335

On the Existence of Barker Codes

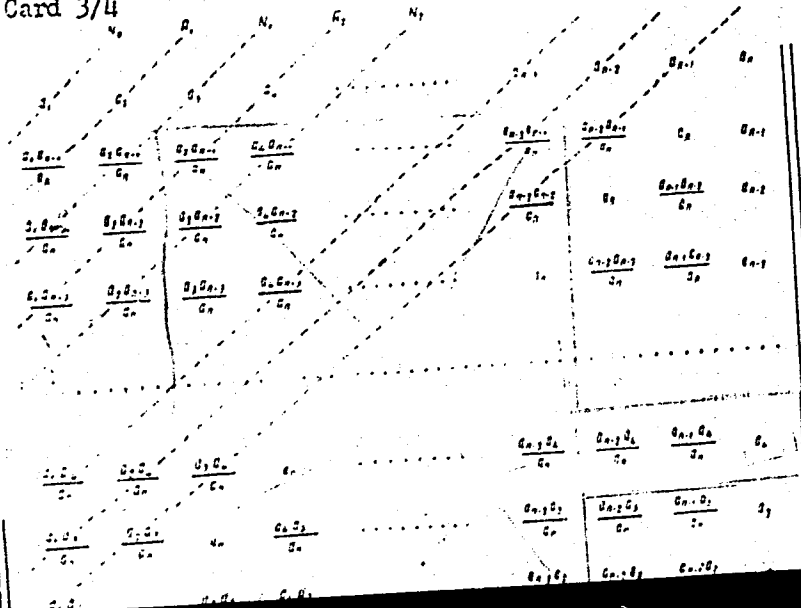
$n = 4k + 2$ ($k = 1, 2, \dots$) the Barker code does not exist.
It has also been found that Barker codes for $n = 4k + 1$,
 $n > 13$, and for $n = 8, 12, 16, 20$, do not exist. The
question of existence of Barker codes for the case $n = 4k$,
 $k > 5$ remains open. ✓
There is 1 Soviet reference.

Card 2/4

Card 3/4

s/141/60/003/005/026/026
E140/E335

On the Existence of
Barker Codes



$$\frac{a_1 a_2}{c_1 c_2} \quad \frac{a_1 a_3}{c_1 c_3} \quad \frac{a_1 a_4}{c_1 c_4} \quad \dots \quad \frac{a_1 a_n}{c_1 c_n} \quad \frac{a_2 a_3}{c_2 c_3} \quad \frac{a_2 a_4}{c_2 c_4} \quad \frac{a_2 a_n}{c_2 c_n} \quad \dots$$

S/141/60/003/005/026/026
 ELAC/3535

On the Existence of Barker Codes

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-tekhnicheskiy
 institut pri Gor'kovskom universitete
 (Scientific Research Physico-technical
 Institute of Gor'kiy University)

SUBMITTED: June 4, 1960

YAM'POLSKAYA, T.A., GURTCVA, G.K., GUREVICH, L.V., MURZAYEVA, L.B., SELETSKAYA, L.I.

Investigation of the Interrelationships Underlying Color and Space Vision and
Application of Results Obtained in Increasing the Effectiveness of Road Signs

Trudy Instituta Biologicheskoy Fiziki, No 1, 1956, p49
S916, 5 Mar 1956, p 49

BITKINA, L.N.; FEDOSYUK, R.Ya.; LOBKOV, M.A.; MIKERINA, N.Ya.; GLUKHOVTSEVA,
Z.N.; RUMANOVA, R.G.; VIL'SHANSKAYA, F.L.; MATVEYEVA, V.N.;
YAMPOL'SKAYA, V.A.; VARSHAVSKIY, E.I.

Outbreak of salmonellosis. Zhur. mikrobiol. epid. i immun. 31 no.2:
99-100 D '60. (MIRA 14:6)

(SALMONELLA)

YAMPOL'SKAYA, V. D.

PA 67T86

USSR/Medicine - Tuberculosis, Pulmonary Mar/Apr 1948
Medicine - Tuberculosis, Surgery in

"Alcoholization of the Diaphragmal Nerve During Primary Pneumonia in Juveniles and Adults," V. D. Yampol'skaya, Surgical Clinic, Tuberculosis Inst, Acad Med Sci USSR, 7 pp

"Problem Tuberk" No 2

Operations on the diaphragmal nerve in 30 cases suffering from primary tubercular pneumonia had therapeutic results in 26 cases. Determined that alcoholization of subject nerve is equivalent to surgical removal. Deputy Chief, Surgical Clinic, Tuberculosis Inst: Prof N. G. Stoyko. Dir, Tuberculosis Inst, Acad Med Sci USSR: Z. A. Lebedev.

67T86

YAMPOL'SKAYA, V. D.

Yampol'skaya, V. D. "Histological changes in the diaphragmal and vagus nerves in tuberculosis patients," Byulleten' In-ta tuberkulesa Akad. med. nauk SSSR, 1949, No..1, p. 20-30.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

YAMPOL'SKAYA, V. D.

OYFEBACH, M.I.; ELINSON, F.L.; SHATALOVA, O.S.; MAZINA, Ye.G.; YAMPOL'SKAYA,
V.D.

Incidence of healing in primary tuberculosis in adolescents and adults.
Prob. tuberk., Moskva no.2:31-36 Mr-Apr '50. (CIML 19:3)

1. Of the Institute of Tuberculosis of the Academy of Medical Sciences
USSR (Director -- Z.A.Lebedeva; Scientific Director -- Prof. A.Ye.Ra-
bukhin).

YANPOL'SKIY, V. D.

IA'POL'SKAIA V. D.

Pravmoliz pri neeffektivnom iskusstvennom pnevmotorakse. [Pneu-
monolysis in ineffective artificial pneumothorax] Prob. tuberk.,
Moskva No. 2 Mar-Apr 51 p. 50-1.

1. Of the Surgical Clinic (Head--Stalin Prize Winner Prof. N. G. Stoyko, deceased), Institute of Tuberculosis of the Academy of Medical Sciences USSR (Director--Z. A. Labedeva; Scientific Supervisor--Prof. A. Ye. Rabukhin).
CML Vol. 20, No. 10 Oct 1951

YAMPOL'SKAYA, V.D.

Inter-Province conference on tuberculosis in Novosibirsk. Probl.
tub. no.2:74-76 Mr-Apr '54. (MLBA 7:5)
(TUBERCULOSIS)

USSR / Morphology of Man and Animals. Nervous System.

S-1

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 21686

Author : Yampol'skaya, V. D.

Inst : ~~Not given~~

Title : Morphologic Changes in Some Parts of the Nervous System
Following Alcoholization of the Phrenic Nerve.

Orig Pub : Eksperim. Khirurgiya, 1956, No 5, 38-44.

Abstract : Following administration of 1 - 1.5 ml. of 96° alcohol, deep dystrophic changes took place in the phrenic nerve; various degrees of demyelination of the fibers and structural changes in the axons (unequal impregnation with silver, tenoid swelling, appearance of vacuoles, fragmentation and granular degeneration). The most pronounced changes* were reversible and reconstructive processes were completed before the 6th post-operative month. Alcoholization of the phrenic nerve did not constitute a local interference, the

Card 1/2

* . . . observed on the 20th-30th day.

Inst. Tuberculosis, Acad Med Sci USSR

YAMPOL'SKAYA, V.D., kandidat meditsinskikh nauk

Extrapleural pneumolysis in ineffective artificial pneumothorax.
Khirurgiia 32 no.8:13-18 Ag '56. (MLRA 9:12)

1. Iz khirurgicheskogo otdeleniya (zav. - prof. L.K.Bogush) Instituta
tuberkuleza AMN SSSR (dir. - Z.A.Lebedeva)
(COLLAPSE THERAPY
pneumolysis, extrapleural)

YAMPOL'SKAYA, V.D., kand.med.nauk

Method for the interruption of extrapleural pneumothorax.
Probl.tub. 37 no.8:58-64 '59. (MIRA 13:6)

1. Iz khirurgicheskogo otdeleniya (sav. - chlen-korrespondent
AMN SSSR prof. L.K. Bogush) Instituta tuberkuleza AMN SSSR
(dir. - chlen-korrespondent AMN SSSR prof. N.A. Shmelev).
(PNEUMOTHORAX ARTIFICIAL)

YAMPOL'SKAYA, V.D., kand.med.nauk

Conditions of the bronchial tree according to bronchographic data
in patients following termination of extrapleural pneumothorax
and oleothorax. Sov. med. 24 no. 5:61-68 My '60. (MIRA 13:10)

1. Iz khirurgicheskogo otdeleniya (zav. - chlen-korrespondent
AMN SSSR prof. L.K. Bogush) Instituta tuberkuleza AMN SSSR
(direktor - chlen-korrespondent AMN SSSR prof. N.A. Shmelev).
(PNEUMOTHORAX) (BRONCHI---RADIOGRAPHY)

YAMPOL'SKAYA, V. D., Doc Med Sci (diss) -- "Extrapleural pneumo- and oleo-
thorax in various localizations of tuberculosis of the lungs and the free
pleural cavity". Moscow, 1960. 16 pp (Acad Med Sci USSR), 200 copies
(KL, No 15, 1960, 139)

YAMPOL'SKAYA, V.D., doktor med.nauk

Method for interrupting an extrapleural oleothorax. Probl.tub.
no.8:37-43 '61. (MIRA 15:5)

1. Iz khirurgicheskoy kliniki Instituta tuberkuleza AMN (zav.
khirurgicheskoy klinikoy - chlen-korrespondent AMN SSSR prof.
L.K. Bogush, dir. - chlen-korrespondent AMN SSSR prof. N.A.
Shmelev).

(OLEOTHORAX)

YAMPOL'SKAYA, Valentina Dmitriyevna; AVERBAKH, M.M., red.;
LYUDKOVSKAYA, N.I., tekhn. red.

[Extrapleural pneumothorax and oleothorax in lung tuberculosis]
Ekstraplevral'nyi pnevmotoraks i oleotoraks pri tuberkuleze
legkikh. Moskva, Medgiz, 1963. 202 p. (MIRA 16:5)
(TUBERCULOSIS) (PNEUMOTHORAX) (OLEOTHORAX)

YAMPOL'SKAYA, V.D., doktor med. nauk

Residual roentgenotomographic changes in pulmonary tissue
following discontinuance of extrapleural pneumo- and oleo-
thorax. Probl. tub. 41 no.3: 84'63. (MIRA 16:9)

1. Iz khirurgicheskogo otdeleniya (zav. - prof. T.N.
Khrushchova) Tsentral'nogo instituta tuberkuleza Ministerstva
zdravookhraneniya SSSR, Moskva.
(LUNGS--RADIOGRAPHY) (PNEUMOTHORAX)
(OLEOTHORAX)

YAMPOL'SKAYA, V.D.

Bronchoangiographic parallels in cavernous tuberculosis of the lungs. Grudn. khir. 5 no.3:70-74 My-Je'63 (MIRA 17:1)

1. Iz II khirurgicheskogo otdeleniya (zav. prof. T.N. Khrushchova) Instituta tuberkuleza (dir. - deystvitel'nyy chlen AMN SSSR) prof. N.A. Shmelev) Ministerstva zdravookhraneniya SSSR. Adres avtora: Moskva 128, platforma Yauza, Institut tuberkuleza.

KHURAMOVICH, N.I.; YAMPOL'SKAYA, V.D.

Angiography and hemodynamics of the pulmonary circulation in tuberculosis of the lungs. Sov. med. 27 no.3:48-53 Mr '64. (MIRA 17:11)

1. Khirurgicheskoye otdeleniye (rukovoditel' - doktor med. nauk P.V. Skaldin) Nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta (dir. - prof. I.G. Lagunova) Ministerstva zdravookhraneniya RSFSR i Institut tuberkuleza (dir. - chlen-korrespondent AMN SSSR prof. N.A. Shmelev) AMN SSSR, Moskva.

YAMPOL'SKAYA, V.D., doktor med.nauk; KHURAMOVICH, N.I., kand.med.nauk

Some hemodynamic indices in the lesser circulation in pulmonary tuberculosis. Probl. tub. 41 no.10:54-58 '63. (MIRA 17:9)

1. Iz Tsentral'nogo instituta tuberkuleza Ministerstva zdravookhraneniya SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.A. Shmelev) Ministerstva zdravookhraneniya SSSR i Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov) AMN SSSR.

YAMPOL'SKAYA, Ye.

Headquarters of popular initiative. Sov. profsoiuzy 19 no.18:
8-10 S '63. (MIRA 16:12)

1. Predsedatel' postoyanno deystvuyushchego proizvodstvennogo
soveshchaniya Frunzenskoy pryadil'no-tkatskoy fabriki.

SUBSTANTIVE DYES																									
SUBSTANTIVE DYES													SUBSTANTIVE DYES												
<p>CA YAMPOL'SKAYA, E. S.</p> <p>Substantive dyeing. L. G. Neibauer-tienning and E. S. Yampol'skaya. Russ. 61,615, July 31, 1938. Substantive dyes contg. the salicylic acid radical are applied in an alk. medium in the presence of hexamethylenetetramine. The dyed material is then treated with a cold soln. of CuSO_4, washed with soap, and dried.</p>																									
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>REGIONAL SYMBOL</p> <p>SYMBOL NO.</p> <p>SYMBOL NO.</p> <p>SYMBOL NO.</p>																									

The image shows a microfiche card with a header section at the top and a main body below. The header includes the title "PROCEDURES AND PROPERTIES INDEX" and a page number "2". The main body contains a section titled "YAMPOL'SKAYA, Ye. V." which describes the pressure of saturated vapor of allyl chloride. The text mentions a Russian journal "J. Applied Chem. (U.S.S.R.)" and provides boiling points at different pressures. It also gives the heat of evaporation and the vapor-pressure equation.

117 AND 219 SERIES

PROCEDURES AND PROPERTIES INDEX

2

C.A.

YAMPOL'SKAYA, Ye. V.

Pressure of saturated vapor of allyl chloride. I. I. Ioffe and E. S. Yampol'skaya. J. Applied Chem. (U.S.S.R.) 17, 537-8 (1944) (English summary).—B.ps. of allyl chloride were detd. between 215 and 780 mm Hg pressure. The numerical relation between vapor pressure and temp. was found. Heat of evapn. was found to be 7.31 cal./mole. The vapor-pressure equation is: $\log P_{\text{mm.Hg}} = -(1877/T) + 7.848$. G. M. Kosolapoff

Common Elements

OPEN

MATERIALS INDEX

A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION

RECORD NUMBER

RECORD DATE

YAMPOLOVSKAYA, YE. V.

CA 10

Preparation of glycerol dichlorohydrins by hypochlorination of allyl chloride. I. I. Ioffe and E. S. Yampol'skaya. (Inst. Organicheskikh Poluproduktov i Krasitel' Im. Voroshilova). *J. Applied Chem. (U.S.S.R.)* 18, 60-4 (1945). -- The following procedure was used in the hypochlorination of allyl chloride: a slow Cl stream was passed through a distributor into 750 cc. water with good agitation, concurrently with 20 g. allyl chloride; after addn. of the latter an excess of Cl was passed in, the mixt. let stand for 30 min., and the Cl excess blown off with air. The water-insol. layer, after washing, was weighed as trichloropropane; dichlorohydrins in aq. soln. were estd. by sapon. for 3 hrs. at the b.p. with 30% KOH. The typical expt. above gave 18.6 g. dichlorohydrins and 14.6 g. trichloropropane. When allyl chloride was fed as a vapor under the above conditions the products were exclusively the dichlorohydrins, the same condition holding when water was replaced by dil. HCl (up to 1.5% concn.). It was shown, however, that the accumulation of dichlorohydrins in the reaction soln., combined with accumulation of HCl, gradually leads to increased yields of trichloropropane. Increase of temp. to 55-65° reduces the chlorination side-reaction by a factor of almost 10 as compared with that at a 13-18° temp. range. G. M. Kosolapoff

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

ROOM DIVISION

ROOM NUMBER

CLASSIFICATION

REMARKS

YAMPOL'SKAYA, Ye. S.: FODIMAN, I.V.

Dyes and Dyeing - Rayon

Dyestuff for acetate rayon and for capronic fiber.

Tekst. prom. 12 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020018-2

5 11

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020018-2"

YAMPOL'SKAYA, Ye.S.; FODIMAN, I.V.

Determining the rate of exhaustion of a dyestuff. Tekst.prom. 13
no.4:28-31 Ap '58. (MIRA 11:4)
(Dyes and dyeing--Chemistry)

YAMPOL'SKAYA, Ye.S.; FODIMAN, I.V.

Absorbability of dyes by capron for acetate silk. Org. poluprod.
i kras. no.2:164-167 '61. (MIRA 14:11)
(Nylon) (Rayon)

ACCESSION NR: AP4033118

S/0120/64/000/002/0093/0095

AUTHOR: Maly*kh, L. Ya.; Maly*kh, N. I.; Perepelkin, N. F.;
Yampol'skiy, Ye. S.

TITLE: Velocity phasemeter for 8-mm band

SOURCE: Pribery* i tekhnika eksperimenta, no. 2, 1964, 93-95

TOPIC TAGS: phasemeter, 8 mm band phasemeter, superheterodyne phasemeter,
plasma, plasma density, density phasemeter

ABSTRACT: A velocity superheterodyne phasemeter operating on the 8-mm wave-length is briefly described. It is intended for (a) measuring the time-average density of plasma by the phase of a signal passing through the plasma and (b) observing movements of the critical-density plasma surface by the phase of the reflected signal. The phasemeter error is 7° plus 1.5° or less due to discrepancies associated with the distance between the meter and the plasma

Card 1/2

ACCESSION NR: AP4033118

outfit. Minimum readable phase shift, $\sim 10^\circ$; max permissible rate of change of the measurand, $0.2 \pi \text{ rad/microsec}$; information about the measurand is delivered every two microsec. A block diagram, a circuit diagram of the intensifier-pulse shaper, and a circuit diagram of the sawtooth-voltage shaper are supplied. "L. I. Kompaniyets and G. V. Kubitskiy took part in the development of the phasemeter." Orig. art. has: 4 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut GKAE SSSR (Physico-Technical Institute, GKAE SSSR)

SUBMITTED: 21 May 63

ATD PRESS: 3073

ENCL: 00

SUB CODE: EC

NO REF SOV: 001

OTHER: 001

Card 2/2

SOLNTSEV, A.M., kand.med.nauk, YAMPOL'SKAYA, Z.K.

Surgery for lacrimal fistulas. Vrach.delo no.4:425-427 Ap'58
(MIRA 11:6)

1. Kafedra chelyustno-litseyoy khirurgii (zav. - prof. M.M.
Velikanova) Kiyevskogo instituta usovershenstvo-vaniya vrachey.
(SALIVARY GLANDS--SURGERY)
(FISTULA)

YAMPOL'SKIY, A. (Moskva).

~~SECRET~~
Power supply for television amplitude limiters. Radio no.11:38
N '56. (MLRA 9:12)

(Television--Apparatus and supplies)

YAMPOL'SKIY, A.

107-57-5-49/63

AUTHOR: Yampol'skiy, A., Vilkov, A. (Moscow)

TITLE: Sound System of a One-Channel TV Set
(Zvukovoy trakt odnokanal'nogo televizora)

PERIODICAL: Radio, 1957, Nr 5, p 44 (USSR)

ABSTRACT: A three-tube f-m circuit for a single-channel tv sound system is described. The circuit is similar to one described in "Radio" 1956, Nr 5, under the title "Detektor dlya priyema ChM signalov", but differs in substituting the Soviet type 6Zh8 tube for a foreign (type 6BN6) tube. The a-f band is claimed to be 100 to 7,000 cps with 3 db irregularity around 1,000 cps. Output power 2 w at 7% distortion. Instructions for alignment and tuning given.

There are one figure and one Soviet reference

AVAILABLE: Library of Congress

Card 1/1

YAMPOL'SKIY, A., inzh.; POLYANIN, A., inzh.

Strive for wider use of cement-clay mortars. Ia stroi. Mosk.
2 no.9:28 S '59. (MIRA 13:2)

1. Trest Mosstroyshab No.1.
(Mortar)

YAMPOL'SKIY, A., inzh.

Use cement more economically and efficiently. Na stroi. Mosk. 2
no.5:18-19 My '59. (MIRA 13:1)

1. Trest Mosstroyshab No.1.
(Cement)

YAMPOL'SKIY, A. D.

166T92

USSR/Oceanography - Currents,
Convection

Sep/Oct 48

"Convection Currents Provided by Thermal Processes in a Sea," A. D. Yampol'skiy

"Meteorol i Gidrol" No 5, pp 63-66

Offers theoretical calculations and considerations to disprove opinion held by many that most currents found in an ocean are provided mainly by temperature changes. Submitted 27 Jun 48.

166T92

Geophysics : Physics of the Sea

FD-1718

Card 1/1 : Pub. 45-6/12

Author : Yampol'skiy, A. D.

Title : On the dependence of wave element distribution parameters upon dispersion, wind velocity and the duration of its action

Periodical : Izv. AN SSSR, Ser. geofiz., 156-165, Mar-Apr 1955

Abstract : The author examines the statistical picture of maritime excitation. Starting from the hypotheses: a) the wave length distribution function depends only on one parameter and b) there is a functional dependence between the height and length of a wave, he derives an equation for the determination of the distribution parameter as a function of the wind velocity, the duration of its action and dispersion. In a special case the solution of the equation is in close agreement with observations. Using the dependence of the wave length on the period, distribution velocity and height, a distribution function of these elements is derived. A means of forecasting wave element distribution parameters for a given wind field is cited.

Institution : Institute of Oceanology, Academy of Sciences USSR

Submitted : March 31, 1954

SOV/124-58-1-669

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 83 (USSR)

AUTHOR: Yampol'skiy, A. D.

TITLE: (Some Methodological Problems of the Use of Aerial Photography in the Investigation of Ocean Waves (Nekotoryye voprosy metodiki primeneniya aerofotos"yemki dlya issledovaniya morskogo volneniya)

PERIODICAL: Tr. In-ta okeanol. AN SSSR, 1956, Vol 19, pp 129-143

ABSTRACT: An aerial-photography technique for ocean waves is outlined; a method for the determination and evaluation of wave elements from aerial photographs is described. Bibliography: 6 references.
Ya. I. Sekerzh-Zen'kovich

Card 1/1

S/049/60/000/007/008/009/XX
E031/E335

AUTHOR: Yampol'skiy, A.D.

TITLE: On the Application of Harmonic Analysis to the Analysis
of Data in Hydrological Observations

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya
geofizicheskaya, 1960, No. 7, pp. 1069 - 1071

TEXT: The two basic difficulties are, firstly, shortage of data
and, secondly, the occurrence of two or more oscillations with
nearly equal periods. If we assume that the required function
has the form:

$$f(t) = A \cos (\omega_1 t + \varphi) + B \cos (\omega_2 t + \psi)$$

(where ω_1 and ω_2 are known), then the first Fourier
coefficients are given by the expressions;

Card 1/4

S/049/60/000/007/008/009/XX
E031/E335

On the Application of Harmonic Analysis to the Analysis of Data
in Hydrological Observations

$$a_1 = \frac{2}{T_1} \int_0^{T_1} f(t) \cos \omega_1 t dt; \quad b_1 = \frac{2}{T_1} \int_0^{T_1} f(t) \sin \omega_1 t dt \quad \downarrow$$

where T_1 is the period corresponding to the frequency ω_1 .

If the expression for $f(t)$ is substituted and the integrations effected, we obtain two equations for four unknowns:

$$\begin{aligned} a_1 &= A \cos \varphi + \alpha B \cos \Psi - \beta B \sin \Psi, \\ b_1 &= -A \sin \varphi + \gamma B \cos \Psi - \delta B \sin \Psi \end{aligned} \quad (3)$$

since the quantities a_1 and b_1 are assumed known from the ordinary methods of numerical harmonic analysis. Equations
Card 2/4

S/049/60/000/007/008/009/XX
E031/E335

On the Application of Harmonic Analysis to the Analysis of
Data in Hydrological Observations

similar to Eq. (3) are written for each segment of the range of observations. The phase difference must be taken into account. For the n -th segment it is given by Eq. (4a). If we introduce this and write the successive expressions for a_{1n} , a_{1n+1} , b_{1n} and b_{1n+1} , we now have four equations for the four unknowns A , B , φ and Ψ , which can be solved by the usual methods. The method is illustrated with an example. The second oscillation is only determined with an accuracy of 9%, due to the occurrence of quantities of nearly equal magnitude and opposite sign in the calculations but the answer is satisfactory in view of the accuracy of the observations. There is 1 table.

Card 3/4

S/049/60/000/007/008/009/XX
E031/E335

On the Application of Harmonic Analysis to the Analysis of
Data in Hydrological Observations

ASSOCIATION: Akademiya nauk SSSR Institut okeanologii
(Academy of Sciences of the USSR, Institute
of Oceanology)

SUBMITTED: November 24, 1959

Card 4/4

YAMPOL'SKIY, A.D.

Variations of hydrological events with an inertial period.
Izv. AN SSSR. Ser. geofiz. no. 3:445-452 Mr '61. (MIRA 14:2)

1. Institut okeanologii AN SSSR.
(Oceanography)

YAMPOL'SKIY, A. D.

Internal waves in the northeastern Atlantic Ocean. Trudy Inst.
ocean. 56:229-240 '62. (MIRA 15:10)

(Atlantic Ocean--Waves)

YAMPOL'SKIY, A.D.

Methodology of calculating inertial fluctuations of hydrologic
elements. Trudy Inst. okean. 66:142-149 '63. (MIRA .6:10)

BELONSOV, I.M.; KOZLOV, N.M.; YAMPOL'SKIY, A.D.

New methodology of statistical treatment of materials in
measuring the sea bottom. Okeanologiya 5 no.1:156-165 '65.

(MIRA 18:4)

1. Institut okeanologii AN SSSR.

YAMPOL'SKIY, A.D., kand. googr. nauk

What is Gulf Stream? Zem.i vsel 1 no.5:53-56 S-0 '65.
(MIRA 18:11)

YAMPOL'SKIY, A.D.

Spectral methods of studying oceanographic processes.
Okeanologiya 5 no.5:769-778 '65.

(MIRA 18:11)

1. Institut okeanologii AN SSSR.

L 27151-66 EWT(1) CW

ACC NR: AP6014289

(N)

SOURCE CODE: UR/0213/66/006/002/0367/0371

AUTHOR: Belousov, I. M.; Kozlov, N. M.; Yampol'skiy, A. D.

21

ORG: Institute of Oceanology, AN SSSR (Institut okeanologii AN SSSR)

13

TITLE: Method for determining inclination angles of the ocean floor

SOURCE: Okeanologiya, v. 6, no. 2, 1966, 367-371

TOPIC TAGS: oceanography, ocean floor topography, oceanographic instrument, inclination measurement

ABSTRACT: Up to now, inclination angles of the ocean floor have been determined by the tangent of the angle between any two successive depth soundings. The relief profile was approximated by straight lines. Such a method yielded rather approximate angular values, especially considering the errors in measuring the depth and distance between them. It is suggested that bottom relief profiles should be approximated by the second power parabola drawn through five successive points. In the authors' opinion, this method is much more accurate than the previously used approximation by straight lines. The first derivative value is calculated for each of the points. This procedure gives a continuous profile of angles. Use of this method for one profile was presented as an example. Orig. art. has: 2 figures and 6 formulas. [Based on authors' abstract.]

[NT]

SUB CODE: 08/ SUBM DATE: none

Card 1/1

UDC: 551.462(26)

2

KRUPYSHEV, N. D.; YAMPOL'SKIY, A. L.

"Examining Norms for Machine Tool and Tool Industry" Stanki i Instrument, 10, No. 4, 1939.

Report U-1505, 4 Oct 1951

KUZNETSOV, S.I., inzh.; YAMPOL'SKIY, A.L., inzh.

The utilization of coal and peat for power purposes. Torf. prom. 35 no.7:
25-28 '58. (MIRA 11:11)

1. Gosudarstvennyy institut po proyektirovaniyu zavedov torfyanoy promyshlennosti.
(Peat) (Coal)

YAMPOL'SKIY, A.I.

C-reactive proteins; a review. Zhur.mikrobiol.epid. i imzun. 29
no.6:82-87 Je '58 (MIRA 11:7)

1. Iz kafedry mikrobiologii Voenno-meditsinskoy ordena Lenina
akademii imeni Kirova.

(BLOOD PROTEINS,

C-reactive, review (Rus))

SLEPTSOV, A.P.; YAMPOL'SKIY, A.L.; PASHININ, P.M.

C-reactive protein in rheumatism in children. *Pediatrics* 37
no.4:27-30 Ap '59. (MIRA 12:6)

1. Iz kliniki pediatrii (zav. - deystvitel'nyy chlen AMN SSSR
prof. M.S.Maslov) i kafedry mikrobiologii (zav. - prof. A.A.
Sinititskiy) Voenno-meditsinskoy ordena Lenina akademii imeni
S.M.Kirova.

(RHEUMATIC FEVER, blood in
C-reactive protein (Rus))
(BLOOD PROTEINS, in various dis.
rheum. fever (Rus))

CHISTOVICH, A.S.; SHVEDSKAYA, A.G.; YAMPOL'SKIY, A.L.

Study of C-reactive protein in infectious psychoses. Zhur. nerv.
i psikh. 60 no. 12:1623-1629 '60. (MIRA 14:4)

1. Kafedry psikhiiatrii (zav. - prof. A.S. Chistovich) Voenno-
meditsinskoy ordena Lenina akademii imeni S.M. Kirova, Leningrad.
(GLOBULIN) (PSYCHOSES)

YAMPOL'SKIY, A.L., inzh.; PISARYUK, L.P., inzh.

Methods for determining the degree of mechanization in the peat
industry. Torf. prom. 40 no.7:12-15 '63. (MIRA 17:1)

1. Gosudarstvennyy proyektnyy institut po kompleksnomu
ispol'zovaniyu torfa v narodnom khozyaystve.

YAMPOL'SKIY, A. M.

Gal'vanostegia v protsessakh termoobrabotki stali. Sverdlovsk, Mashgiz,
1946. 78, [27] p. illus.

Bibliography: p. [79]

Electroplating during the heat-treatment of steel.

DLC: TS670.I2

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

[illegible]

YAMPOISKIY, A. M.

"Oxidizing and Phosphating of Metals," Moscow-Leningrad, 1950

B-76256

Evaluation B-76256

YAMPOL'SKIY, A.A.

VAYNER, Ya.V., laureat Stalinskoy premii kandidat tekhnicheskikh nauk;
DASOYAN, M.A., kandidat tekhnicheskikh nauk; DRINBERG, A.Ya.,
laureat Stalinskoy premii doktor tekhnicheskikh nauk, professor;
TARASENKO, A.A., laureat Stalinskoy premii, inzhener; KHAIN, I.I.,
inzhener; BOGORAD, I.Ya., laureat Stalinskoy premii, kandidat
tekhnicheskikh nauk, retsenzent; SNEDZE, A.A., kandidat tekhnicheskikh nauk, retsenzent; YAMPOL'SKIY, A.A., inzhener, retsenzent;
TIKHOMIROV, A.A., inzhener, retsenzent; FEDOT'YEV, N.P., laureat
Stalinskoy premii doktor tekhnicheskikh nauk, professor, redaktor;
GUREVICH, Ye.S., kandidat tekhnicheskikh nauk, redaktor; DLUGOKAN-
SKAYA, Ye.A., tekhnicheskii redaktor

[Handbook on protective and decorative coatings] Spravochnik po
zashchitno-dekorativnym pokrytiyam. Pod red. N.P.Fedot'eva.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1951. 480 p.
[Microfilm] (MLRA 10:7)
(Protective coatings)

YAMPOL'SKIY A.M.

Yangof skul, A. M. ...
... ..
... ..

POPILOV, L.Ya.; YAMPOL'SKIY, A.M., inzhener, redaktor.

[Technology of electrolytic metal polishing] Tekhnologiya elektro-
polirovaniia metallov. Leningrad, Gos. nauchno-tekhn. izd-vo ma-
shinostroit. lit-ry [Leningradskoe otd-nie] 1953. 254 p.

(MLRA 7:2)

(Metals--Finishing)

IL'IN, Vitaliy Alekseyevich; FEDOROV, V.A., inzh., retsenzent; VYACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, H.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Tin and lead plating] Iuzhenie i svintsevanie. Pod obshchei red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 31 p. (Biblioteshka gal'vanotekhnika, no.4).
(Tin plating) (Lead plating) (MIRA 11:9)

VIACHESLAVOV, Petr Mikhaylovich, dots., kand. khim. nauk; FEDOT'YEV, N.P.,
prof., doktor khim. nauk, retsenzent; ORILIKHES, S.Ya., kand.
tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY,
N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Alloy plating] Gal'vanicheskie pokrytiia splavami. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 37 p. (Biblio-
techka gal'vanotekhnika, no.7). (MIRA 11:9)

(Electroplating)

YANPOL'SKIY, A.M.
VYACHESLAVOV, Petr Mikhaylovich, dots., kand. khim. nauk; LANTRATOV, M.F., dots., kand. khim. nauk, retsenzent; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Fundamentals of electroplating] Osnovnye ponyatiia o gal'vano-tekhnike. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 38 p. (Bibliotekha gal'vanotekhnika, no.1).
(Electroplating) (MIRA 11:9)

PHASE I BOOK EXPLOITATION

SOV/3964

Yampol'skiy, Anatoliy Mikhaylovich

Medneniye i nikelirovaniye (Copper Plating and Nickel Plating) Moscow, Mashgiz, 1958. 41 p. (Series: Bibliotekha gal'vanotekhnika, vyp. 5) 10,000 copies printed. Errata slip inserted.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer: Ye. T. Tsay, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman), S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy, Engineer; Ed. of this book: S. Ya. Grilikhes; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F. I. Fetisov, Engineer; Ed. of Publishing House: A. I. Varkovetskaya; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians, and foremen of electroplating and electroforming shops.

COVERAGE: The book is the fifth volume of the "Little Library of Electrodeposition" series. It contains technical data on the electrodeposition of copper and nickel and their application in multiple layers, electrolyte

Card 1/3

Copper Plating and Nickel Plating

SOV/3964

compositions, electrodepositing conditions, and also on some special technical aspects of individual electrodeposition processes. Some information on finishing copper- and nickel-plated items is given in brief. No personalities are mentioned. There are 27 references, all Soviet.

TABLE OF CONTENTS:

Foreword

Ch. I. Copper Plating

1. Physicochemical properties of copper and applications of copper plating
2. Basic materials
3. Cyanide electrolytes
4. Noncyanide electrolytes
5. Acid electrolytes
6. Specific cases and methods of copper plating
7. The deposition of nonferrous cuprous oxide films
8. Final finishing of copper coatings

3

5

5

6

6

9

10

12

17

18

Card 2/3

Copper Plating and Nickel Plating

80V/3964

9. Quality control of coatings and correcting flaws	19
Ch. II. Nickel Plating	
10. Physicochemical properties of nickel and the applications of nickel plating	21
11. Basic materials	21
12. Sulfate electrolytes for nickel plating	22
13. Bright nickel-plating electrolytes	22
14. Other nickel-plating electrolytes	30
15. Deposition of dark nickel	31
16. Specific cases of nickel plating	33
17. Chemical nickel plating	34
18. Additional treatment of nickel and its alloys	40
19. Quality control of coatings	41
Bibliography	43

AVAILABLE: Library of Congress (TS670.B6)

Card 3/3

JA/cdw/ec
8-24-60

PHASE I BOOK EXPLOITATION

SOV/3966

Yampol'skiy, Anatoliy Mikhaylovich

Gal'vanotekhnika dragotsennykh i redkikh metallov (Electroplating With Precious and Rare Metals) Moscow, Mashgiz, 1958. 41 p. (Series: Bibliotekha gal'vanotekhnika, vyp. 7) Errata slip inserted. 8,000 copies printed.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer: I. F. Leusskiy, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman), S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy, Engineer; Ed. of this book: S. Ya. Grilikhes; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F. I. Fetisov, Engineer; Ed. of Publishing House: A. I. Varkovetskaya; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians, and foremen of electroplating and electroforming shops.

COVERAGE: The book is the eight volume of the "Little Library of Electrodeposition" series. The technology of electrodepositing silver, gold, and other precious and rare metals is discussed. The compositions of electrolytes, electrodepositing conditions, and also special aspects of some

Card 1/4

Electroplating With Precious and Rare Metals

SOV/3966

specific cases of electrodepositing these metals/ are mentioned. Brief information is given on the deposition of some nonprecious metals (tungsten, molybdenum, bismuth, etc.) and other metals rarely used in electroplating. No personalities are mentioned. There are 30 references: 25 Soviet, 4 German and 1 English.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Silver Plating	5
1. Physicochemical properties of silver and fields of application for silver-plating	5
2. Materials and anodes	5
3. Flow sheet of the industrial silver-plating of brass or copper articles	6
4. Cyanide electrolytes for silver plating	8
5. Noncyanide electrolytes for silver plating	12
6. Deposition of alloys	15
7. Chemical silver plating	15
8. Additional treatment of silver [plating]	17
Card 2/4	

Electroplating With Precious and Rare Metals

SOV/3966

9. Inspection operations	18
10. Flaws and their correction	18
Ch. II. Gold Plating	20
11. Physicochemical properties of gold and fields of application for gold plating	20
12. Materials and anodes	20
13. Flow sheet of the industrial gold-plating of small silver and copper articles	21
14. Electrolytes for gold-plating	23
15. Contact gold plating	28
16. Additional finishing of gold-plated articles	29
17. Checking electrolytes and the quality of coatings	29
18. Flaws and their correction	30
19. Recovery of gold from electrolytes	30
20. The nature of losses which occur in the industrial process of gold plating	31
Ch. III. Deposition of Other Metals	35
21. Deposition of platinum	35
22. Deposition of palladium	35
Card 3/4	

Electroplating With Precious and Rare Metals

23. Deposition of rhodium	36
24. Deposition of indium	37
25. Deposition of rhenium	38
26. Deposition of gallium	39
27. Deposition of thallium	39
28. Deposition of tungsten	40
29. Deposition of titanium	40
30. Deposition of other metals	41

Bibliography	43
--------------	----

AVAILABLE: Library of Congress (TS 670.B6)

Card 4/4

JA/cdw/sfm
8-24-60

YAMPOL'SKIY, A.M.

IL'IN, Vitaliy Alekseyevich; FEDOROV, V.A., inzh., rotsenzent; VYACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Zinc and cadmium plating] TSinkovanie i kadmirovanie. Pod obshchei red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 44 p. (Bibliotekha gal'vanotekhnika, no.3).
(Zinc plating) (Cadmium plating) (MIRA 11:10)

Yampol'skiy, H.M.
BIBIKOV, Nikolay Nikolayevich; NEMTSOVA, F.Ye., inzh., retsenzent;
VYACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES,
S.Ye., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.;
SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Electroplating with a periodic reverse current] Gal'vanicheskie
pokrytiia na toke peremennoi poliarnosti. Pod obshchei red. P.M.
Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroit.
lit-ry, 1958. 47 p. (Bibliotekha gal'vanotekhnika, no.10).
(Electroplating) (MIRA 11:9)

YAMPOL'SKIY, P.M.

GRILIKHES, Semen Yakovlevich, kand. tekhn. nauk; KHEYFETS, V.L., kand. tekhn. nauk, retsenzent; VIACHESLAVOV, P.M., dots., kand. khim. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; VASIL'YEVA, V.P., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Preparation of articles for electroplating and finishing of the electroplate] Podgotovka izdelii pered gal'vanicheskimi pokrytiyami i otdelka pokrytii. Pod obshchey red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 60 p. (Bibliotekha gal'vanotekhnika, no.2). (MIRA 11:9)
(Electroplating)

YAMPOL'SKIY, A.M.

GRILIKHES, Semen Yakovlevich, kand. tekhn. nauk.; CHERNOVA, P.L., inzh.; retsenzent;
VYACHESLAVOV, P.M., kand. khim. nauk, dots., red.; YAMPOL'SKIY,
A.M., inzh., red.; GOFMAN, Ye.K., red. izd-va.; SOKOLOVA, L.V., tekhn. red.

[Protection of metals by means of oxide and phosphate coatings]
Zashchita metallov oksidnymi i fosfatnymi plenkami. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 64 p. (Bibliotekha
gal'vanotekhnika, no. 9). (MIRA 11:11)
(Protective coatings)

VAYNER, Yakov Vul'fovich; KUSHNAROV, B.P., inzh., retsenzent; VIACHESLAVOV, P.M., dots.. kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Equipment of electroplating shops] Oborudovanie gal'vanicheskikh tsekhov. Pod red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 77 p. (Bibliotekha gal'vano-tekhnika, no.11). (MIRA 11:10)

(Electroplating)

YAMPOL'SKIY, N.Z.
CHERKIZ, Mikhail Borisovich; BOGORAD, L.Ya., inzh. retsenzent; VIACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red., izd-va; SOKOLOVA, L.V., tekhn. red.

[Chrome and iron plating] Khromirovanie i zheleznenie. Pod red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 84 p. (Bibliotekha gal'vanotekhnika, no.6).
(Electroplating) (MIRA 11:9)

KHUGLOVA, Yakaterina Georgiyevna, inzh.; VYACHESLAVOV, Petr Mikhaylovich, dots.,
kand. khim, nauk.; CHERNOVA, P.L., inzh. retsenzent.; GRILIKHES,
S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.H., inzh., red.;
VARKOVETSKAYA, A.I., red. izd-va.; SOKOLOVA, L.V., tekhn. red.

[Control of plating baths and coatings] Kontrol' gal'vanicheskikh
vann i pokrytii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1958. 107 p. (Bibliotekha gal'vanotekhnika, no. 12).

(MIRA 11:12)

(Electroplating)

PHASE I BOOK EXPLOITATION

937

Yampol'skiy, Anatoliy Mikhaylovich

Zashchitnyye pokrytiya metallov (Protective Metal Coating) [Leningrad]
Lenizdat, 1958. 134 p. (Series: Opyt novatorov leningradskoy
promyshlennosti) 5,000 copies printed.

Ed.: Yemel'yanova, Ye. V. ; Tech. Ed.: Levonevskaya, L. G.

PURPOSE: This book is intended for engineers, technicians, and skilled
workers in plating shops.

COVERAGE: The book describes improved methods of chemical and electro-
chemical plating of metals which were developed by technicians at plants
in Leningrad. Composition of electrolytes and operating conditions are
indicated, and descriptions are given of equipment and technological
aspects of individual processes. There are 29 Soviet references.

Card 1/3

Protective Metal Coating

937

TABLE OF CONTENTS:

Ch. I. Preparation of the Surface for Coating	5
Ch. II. Zinc Plating and Cadmium Plating	16
1. Zinc plating	16
2. Cadmium plating	26
Ch. III. Tin Plating	28
Ch. IV. Copper Plating	42
Ch. V. Nickel Plating	56
Ch. VI. Chrome Plating and Iron Plating	66
3. Chrome plating	66
4. Iron plating	77

Card 2/3

Protective Metal Coating	937
Ch. VII. Coating of Precious and Rare Metals	79
Ch.VIII. Oxide and Phosphate Coating of Ferrous Metals	88
5. Oxide coating	88
6. Phosphate coating	92
Ch. IX. Oxide Coating of Aluminum and Its Alloys	99
Ch. X. Electroplating of Aluminum and Its Alloys	115
Ch. XI. Equipment	125
Literature	134

AVAILABLE: Library of Congress (TS670.I27)

Card 3/3

GO/gap
12-23/58

VAMPOL'SKIY, A. I.

SOV/137-58-8-17675

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 210 (USSR)

AUTHORS: Kurdyumov, G. V., Maksimova, O. P., Nikonorova, A. I.
Pavlenko, Z. D., Yampol'skiy, A. M.

TITLE: The Effect of Preliminary Plastic Deformation on Martensite Transformation in Fe-Cr-Ni Alloys (Vliyaniye predvaritel'noy plasticheskoy deformatsii na martensitnoye prevrashcheniye v splavakh Fe-Cr-Ni)

PERIODICAL: Sb. tr. In-t metalloved. i fiz. metallov Tsent. n.-i. in-ta chernoy metallurgii, 1958, Vol 5, pp 41-55

ABSTRACT: Investigations were performed in order to evaluate the effect of plastic deformation (PD) and subsequent heating on processes of martensite transformation (MT) during cooling, and on isothermal MT in an alloy composed of Kh18N8 (0.03% C, 18.10% Cr, and 8.1% Ni) and Kh17N9 (0.05% C, 17.25% Cr, and 9.16% Ni). The PD was effected by compression of specimens in a press at room temperature, as well as at temperatures of 100 and 175°C. Changes in the ability of austenite (A) to undergo transformations were evaluated by means of a thermomagnetic method involving plotting of martensite cooling curves during

Card 1/3

SOV/137-58-8-17675

The Effect of Preliminary Plastic Deformation. (cont.)

cooling of the material to -196° followed by heating to a temperature of 20° at a rate of $10^{\circ}/\text{min}$. The summary transformation effect obtained as a result of the cooling and heating processes was taken as a criterion of stability of A. After deformation and annealing, the crystalline substructure of the A was characterized by the width of X-ray interference lines. It is established that, depending on the conditions of PD and annealing procedures, the PD may have an activating or a retarding effect on the MT. A small degree of PD extends the temperature range of the MT increases the initial rate of isothermal transformation, and increases the over all quantity of martensite. As the degree of PD and the temperature at which it is accomplished are increased, the PD begins to exert a retarding influence on the ability of A to undergo MT. Annealing of metal in the temperature range between 100° and 400° eliminates the activating effect of a preceding PD without destroying its retarding effect. At PD of a high degree, annealing at temperatures of 100 400° results in an additional improvement of the stability of A. The activation of the MT is affected by stresses which arise during PD; these stresses are restricted to small volumes and are different from stresses of type II, which are determined by the blurring of the interference lines. The retarding action of PD is affected by the breaking up of the zones of coherent dispersion of X-rays, an effect which hampers the formation of martensite nuclei. The activating and retarding

Card 2/3

SOV/137-58-8-17675

The Effect of Preliminary Plastic Deformation (cont.)

action of PD on the MT is a function not only of the degree of the PD, but of the plastic-elastic properties of the initial phase as well.

1. Chromium-iron-nickel alloys--Analysis
2. Martensite--Transformations
3. Martensite--Deformation
4. Martensite--Temperature factors

M. Sh.

Card 3/3

Yampol'skiy, A. M.

SOV/126-6-1-12/33

AUTHORS: Kurdyumov, G. V., Maksimova, O. P., Nikonorova, A. I., Pavlenko, Z. D., and Yampol'skiy, A. M.

TITLE: Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni
(Vliyaniye predvaritel'noy plasticheskoy deformatsii na martensitnoye prevrashcheniye v splave Fe-Cr-Ni)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 1, pp 95-105 (USSR)

ABSTRACT: The results are described of experiments carried out for elucidating the finer features of the influence of plastic deformation and subsequent annealing on the martensite transformation in Fe-Cr-Ni alloys of the type Kh18N8. The aim was to establish the activating effect of deformation in such an alloy and to verify the validity of the assumption of the activating influence of stresses on the martensitic transformation of deformed austenite. For this it was necessary to study the character of elimination of the after effects of deformation with gradually increasing annealing temperature; in view of the possible super-position of diffusion processes onto
Card 1/8 the processes of stress elimination during annealing,

SOV/126-6-1-12/33

Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni

such investigations could not be effected on steel. If the assumption on the favourable influence of stresses on the martensitic transformation of deformed austenite would be correct, the effect of activation should be eliminated in the case of heating in the range of relatively low temperatures. Another aim of the described work was to study the influence of deformation on the isothermal martensitic transformation for the purpose of elucidating the characteristic features of the changes in the kinetics caused by the influence of the activating and/or the braking effects of deformation. Since the activating influence of deformation can only be detected in alloys with high elasticity values, it was decided to carry out the experiments on the alloy Kh18N8 (0.03% C, 18.10% Cr, 8.1% Ni) and the alloy Kh17N9 (0.05% C, 17.25% Cr, 9.16% Ni), both of which are similar in composition and as regards the martensitic point. On the alloy Kh18N8 the influence of deformation and subsequent heating for obtaining martensitic transformation during cooling was studied, whilst on the alloy Kh17N9 the influence of deformation on the isothermal

Card 2/8

SOV/126-6-1-12/33

Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni

martensitic transformation was studied. Investigations were carried out on flat 3.5 x 5.5 x 25.5 mm specimens which after manufacture were subjected to diffusion annealing at 1150°C for ten hours. The plastic deformation was effected by compression by means of a press at room temperature, at 100 and at 175°C. Deformation at 100 and 175°C was effected inside a special sleeve fitted with a heater winding; as a medium for ensuring the temperature of 100°C boiling water was used, whilst deformation at 175°C was effected in glycerine. Evaluation of the change of the ability of the austenite to become transformed into martensite was effected by means of the thermo-magnetic method by plotting the curves of cooling to -196°C and subsequent heating to 20°C with a speed of 10°C/min. As the basic criterion of the stability of the austenite, the total transformation effect was chosen which was obtained as a result of cooling and heating. The change in the fine structure of the austenite during the plastic deformation and during the

Card 3/8 subsequent heating was investigated by the X-ray method

SOV/126-6-1-12/33

Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni

by measuring the width of the line (311). As a characteristic of the state of the structure of the austenite (Type II stresses, dimensions of the blocks and coherent scattering), the magnitude of physical widening of the (311) austenite lines was chosen. In Fig.1 the transformation of the austenite into martensite during cooling to -196°C and subsequent heating to $+20^{\circ}\text{C}$ is graphed after various degrees of preliminary plastic deformation at room temperature for the alloy Kh18N8; in Fig.2 the same relation is graphed for the case of deformations taking place at 100°C and at 175°C . In Fig.3 the change of the total effect of martensitic transformation as a function of the degree of preliminary plastic deformation is graphed for various temperatures of preliminary deformation for the alloy Kh18N8. In Fig.4 the influence of the annealing temperature on the transformation of the deformed austenite during cooling to -196°C and heating to 20°C is graphed for various degrees of deformation at 100°C (alloy Kh18N8). In Fig.5

Card 4/8

SOV/126-6-1-12/33

Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni

austenite, of the total effect of martensitic transformation (during cooling and during heating) and the change of the martensitic point are graphed as functions of the annealing temperature for specimens of the Kh18N8 alloy deformed by 10% at 100°C. In Fig.6 the temperature dependence of the initial speed and the total effect of isothermal martensitic transformation are graphed for non-deformed and deformed (8 and 17%) states for a deformation temperature of 100°C (alloy Kh17N9). It was found that, depending on the conditions of deformation and annealing, plastic deformation can have an activating or a braking effect on the martensitic transformation. Small degrees of deformation activate the transformation, i.e. widen the temperature range of the transformation, bring about an increase of the initial speed of the isothermal transformation and of the total quantity of the martensitic phase. Various changes in the fine crystalline structure of the austenite may lead either to easier formation of martensite nuclei during subsequent

Card 5/8 cooling or may impede their formation. For small degrees

SOV/126-6-1-12/33

Influence of Preliminary Plastic Deformation on the Martensitic Transformation in the Alloy Fe-Cr-Ni

of plastic deformation those structural changes will occur to an increasing extent which bring about the formation of germinations. However, even at such degrees of deformation changes occur in the austenite which impede transformation. With increasing degree of deformation and also with increasing deformation temperature, the changes in the structure which bring about braking of the transformations increase in importance. The changes in the fine crystalline structure, which activate the transformation are eliminated at relatively low annealing temperatures at which the width of interference lines does not yet change, i.e. whilst there are still no important changes in the magnitude of the Type II distortions or in the dimensions of the areas of coherent scattering. Changes in the structure braking the formation of germinations are maintained thereby; elimination of these takes place only at higher temperatures corresponding to the region of decrease in the degree of blurring of the lines. It is not possible

Card 6/8 as yet to establish those details of the fine structure